

# Iron and Steel Castings

## 1998

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Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1997 Manufacturing Profiles, issued August 1999.

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/econ/www/manumenu.html>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR's)," clicking on "Report Number Index;" from the "Industrial Products by Numeric Index," choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (WK format) to your personal computer.

These data are also available through the U.S. Department of Commerce and STAT-USA Electronic Bulletin Board by subscription. To access, dial 202-482-3870 and follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information. The Internet address is: [www.stat-usa.gov/](http://www.stat-usa.gov/).

Note: Data are now published on the new North American Industry Classification System (NAICS) basis and therefore are not always comparable to the old Standard Industrial Classification (SIC) code. For further information on NAICS, see [www.census.gov/epcd/www/naics.html](http://www.census.gov/epcd/www/naics.html).

### Summary of Findings:

In 1998, quantity of iron and steel castings shipped were estimated at 12,101 thousand short tons, which compares to the 11,753 thousand short tons shipped in 1997. Ductile iron and gray iron castings quantity shipped were estimated at 4,484 and 6,021 thousand short tons respectively, from the 4,325 and 5,938 shipped in 1997. Manufacturers of malleable iron castings shipped 271 thousand short tons in 1998, which was virtually unchanged from the 272 thousand short tons shipped in 1997. The quantity of steel castings shipped in 1998 is 1,324 thousand short tons from the 1,218 thousand short tons in 1997.

Current  
Industrial  
Reports

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Brenda Campbell, 301-457-1031.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

# U S C E N S U S B U R E A U

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**Table 1. Quantity of Shipments of Iron and Steel Castings: 1998 and 1997**  
**[Thousands of short tons]**

Year	Ductile iron castings			Gray iron castings			Malleable iron castings			Steel castings		
	Total	For sale	For own use	Total	For sale	For own use	Total	For Sale	For own use	Total	For Sale	For own use
1998.....	4,484	4,050	434	6,021	4,617	1,404	271	134	137	1,324	1,249	75
1997.....	4,325	3,915	410	5,938	4,448	1,490	272	121	151	1,218	1,174	44

**Table 2. Value of Shipments of Iron and Steel Castings: 1998 and 1997**  
**[Millions of dollars]**

Product description	1998		1997	
	Value of Shipments	Standard error (percent)	Value of Shipments	Standard error (percent)
Ductile iron castings.....	4,326.4	1.0	4,148.9	1.0
Gray iron castings.....	4,639.2	1.6	4,719.5	2.0
Malleable iron castings.....	258.3	1.1	272.4	1.1
Steel castings.....	2,488.3	1.0	2,343.5	1.0
Steel investment castings.....	6,260.8	10.3 r/	5,151.9	12.2

r/Revised by 5 percent or more from previously published data.

Note: Dollar value represents the value of castings for sale.

Table 3. Shipments of Iron and Steel Castings by Type of Castings: 1998 and 1997  
[Quantity in short tons]

Product code	Product description	1998		1997	
		Quantity	Standard error (percent)	Quantity	Standard error (percent)
	Iron and steel castings (except investment castings).....	12,100,736	(NA)	11,752,544	(NA)
	For sale.....	10,050,783	(NA)	9,657,774	(NA)
	For own use.....	2,049,953	(NA)	2,094,770	(NA)
	Ductile (nodular) iron castings.....	4,484,296	(NA)	4,324,723	(NA)
	For sale.....	4,049,912	(NA)	3,914,943	(NA)
	For own use.....	434,384	(NA)	409,780	(NA)
	Ductile iron pressure pipe:				
3315111201	Under 14 inches (inside diameter).....	1,467,333	-	1,380,919	-
3315111107	14 to 24 inches.....	(D)	- r/	(D)	-
3315111108	30 inches and over.....	(D)	-	(D)	-
	Ductile iron fittings:				
3315111111	Under 14 inches (inside diameter).....	81,733	3.1	69,543	3.1
3315111117	14 to 24 inches.....	17,483	- r/	15,712	-
3315111118	30 inches and over.....	5,802	-	6,640	-
3315113206	Construction and utility castings.....	44,914	(Z) r/	39,340	1.0
3315113101	Automotive uses.....	986,378	(Z)	1,014,996	1.0
3315113216	Machinery uses.....	144,107	2.4	146,313	2.5
3315113221	Other ductile iron castings (except pressure pipe and fittings):				
	For sale.....	878,377	1.2	813,153	1.2
	For own use.....	108,139	1.6	101,483	1.7
	Gray iron castings.....	6,021,497	(NA)	5,937,606	(NA)
	For sale.....	4,617,445	(NA)	4,447,929	(NA)
	For own use.....	1,404,052	(NA)	1,489,677	(NA)
331511E200	Molds and stools for heavy steel ingots...	56,473	- r/	75,296	-
	Gray iron pressure pipe fittings: 1/				
3315115121	Under 14 inches (inside diameter).....	21,956	-	23,195	-
3315115125	14 inches and over (inside diameter)....	876	7.4 r/	873	7.4
3315117114	Gray iron soil pipe.....	243,954	- r/	248,676	-
3315117133	Gray iron soil pipe fittings 1/.....	65,280	- r/	66,304	-
3315119206	Automotive uses.....	1,062,868	1.0 r/	1,045,907	1.0
3315119111	Construction and utility castings.....	648,659	1.0 r/	608,904	1.0
3315119116	All other gray iron castings, including white iron castings:				
	For sale.....	2,517,381	1.5 r/	2,378,775	1.5
	For own use.....	327,149	6.2	378,088	6.0
	Malleable iron castings.....	271,071	(NA)	271,763	(NA)
	For sale.....	134,280	(NA)	120,600	(NA)
	For own use.....	136,791	(NA)	151,163	(NA)
331511A100	Standard malleable.....	179,715	(Z)	192,030	(Z)
331511C300	Pearlitic malleable.....	91,356	(Z)	79,733	(Z)
	Steel castings (except investment).....	1,323,872	(NA)	1,218,452	(NA)
	For sale.....	1,249,146	(NA)	1,174,302	(NA)
	For own use.....	74,726	(NA)	44,150	(NA)
	Carbon steel.....	945,227	(NA)	821,861	(NA)
	Railroad specialties.....	714,852	(NA)	589,418	(NA)

Continued

Table 3. Shipments of Iron and Steel Castings by Type of Castings: 1998 and 1997  
[Quantity in short tons]

Product code	Product description	1998		1997	
		Quantity	Standard error (percent)	Quantity	Standard error (percent)
3315131102	Side frames, bolsters, couplers, yokes, draft gear, snubbers (self-contained unit type), hopper doors and frames and break beams.....	288,478	-	235,820	-
3315131103	Other carbon steel railway and transit rolling stock castings.....	426,374	(Z)	353,598	(Z)
3315131215	Other carbon steel castings, including rolls for rolling mills:				
	For sale.....	225,696	0.6	227,346	0.6
	For own use.....	4,679	10.0	5,097	9.3
	Alloy (except high alloy) steel castings...	249,570	(NA)	262,521	(NA)
3315135101	Railway specialties.....	35,449	1.7	31,874	1.4
3315135113	Other alloy steel castings, including rolls for rolling mills.....	214,121	1.1	230,647	1.1
3315133113	High alloy steel castings:				
	For sale.....	122,099	1.4	120,599	1.4
	For own use.....	6,976	3.3	13,471	1.6
	Steel investment castings 2/.....	91,744	(NA)	94,795	(NA)
	For sale 2/.....	87,454	(NA)	90,381	(NA)
	For own use 2/.....	4,290	(NA)	4,414	(NA)
3315120101	Carbon, including low alloy 2/.....	36,758	1.0	31,919	1.0
3315120106	Alloy, including stainless 2/.....	54,986	1.0	62,876	1.0

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available.  
Z Less than half the unit shown. r/Revised by 5 percent or more from previously published data.

1/ Does not include machined, threaded, or assembled fittings.

2/Shipments are in thousands of pounds.

**Table 4. Manufacturers Shipments, Exports, and Imports of Iron and Steel Castings: 1998**  
[Quantity in short tons]

Product code	Product description 1/	Manufacturers' shipments	Exports of domestic merchandise 1/2/	Imports for consumption 1/3/
3315111201 107, 108	Ductile iron pressure pipe.....	1,891,118	61,422	5,285
3315111111 117, 118	Ductile iron fittings.....	105,018	5,909	33,976
331511E200	Molds for heavy steel ingot.....	56,473	20	3,349
3315115121 125	Gray iron pressure pipe fittings.....	22,832	6,867	20,445
3315117114	Gray iron soil pipe.....	243,954	11,820	9,791
3315117133	Gray iron soil pipe fittings.....	65,280	465	6,737
3315113101 206, 216, 221 3315119206 111, 116 331511A100 331511C300 3315131102 103, 215 3315135101 113 3315133113 3315120101 106	Iron and steel castings, n.e.c.....	8,397,683	96,864	270,510

n.e.c. Not elsewhere classified.

1/For comparison of North American Industry Classification System (NAICS) codes with Schedule B export numbers, and import numbers, see Table 5.

2/Source: Census Bureau report FT 446, U.S. Exports.

3/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

**Table 5. Comparison of North American Industry Classification System (NAICS)-  
Based Product Codes with Schedule B Export Numbers and HTSUSA  
Import Numbers: 1998**

<b>Product code</b>	<b>Product description</b>	<b>Export number 1/</b>	<b>Import number 2/</b>
3315111201, 3315111107, 3315111108	Ductile iron pressure pipe.....	7303.00.0060 7303.00.0090	7303.00.0060 7303.00.0090
3315111111, 3315111117, 3315111118	Ductile iron fittings.....	7307.19.3000	7307.19.3040 7307.19.3060 7307.19.3080
331511E200	Molds for heavy steel ingots.....	8454.20.0010	8454.20.0010
3315115121, 3315115125	Gray iron pressure pipe fittings.....	7307.11.0030 7307.11.0060	7307.11.0030 7307.11.0060
3315117114	Gray iron soil pipe.....	7303.00.0030	7303.00.0030
3315117133	Gray iron soil pipe fittings.....	7307.11.0045	7307.11.0045
3315113206 3315113101, 3315113216, 3315113221, 3315119206, 3315119111, 3315119116, 331511A100, 331511C300, 3315131102, 3315131103, 3315131215, 3315135101, 3315135113, 3315133113, 3315120101, 3315120106	Iron and steel castings, n.e.c.....	7307.19.9030 7307.19.9090 7325.10.0000 7325.91.0000 7325.99.0000	7307.19.9030 7307.19.9040 7307.19.9060 7307.19.9080 7325.10.0010 7325.10.0050 7325.91.0000 7325.99.1000 7325.99.5000

n.e.c. Not elsewhere classified.

1/Source: 1998 edition , Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (1998).